

Amendments to the Claims

The following listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

Claim 1. (Original) An arcuate architectural component adapted for inclusion in an architectural structure, the arcuate architectural component comprising:

5 a flexible outer board that upon being bent forms a curved first outer surface of the arcuate architectural component, said flexible outer board including tongue-and-groove tracks formed along opposite longitudinal edges thereof;

10 a flexible inner board that upon being bent forms a curved second outer surface of the arcuate architectural component, said flexible inner board including tongue-and-groove tracks formed along opposite longitudinal edges thereof;

15 a first plurality of arcuate tiles that are adapted to be arranged for forming a third outer surface of the arcuate architectural component which spans between a longitudinal edge of said flexible outer board and a longitudinal edge of said flexible inner board, each of said first plurality of arcuate tiles having formed along peripheral edges thereof:

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an arcuate first tongue-and-groove that is adapted to
mate and lock with a portion of the tongue-and-groove track of
said flexible outer board; and

an arcuate second tongue-and-groove that is adapted to
mate and lock with a portion of the tongue-and-groove track of
said flexible inner board;

whereby said first plurality of arcuate tiles, when all mated and
locked with the tongue-and-groove tracks of said flexible outer
board and with said flexible inner board form the third outer
surface of the arcuate architectural component, said first
plurality of arcuate tiles constraining the mating
tongue-and-groove tracks of said flexible outer board and of said
flexible inner board into an arcuate shape; and

a second plurality of arcuate tiles that are adapted to be
arranged for forming a fourth outer surface of said flexible outer
board which spans between a longitudinal edge of said flexible
outer board and a longitudinal edge of said flexible inner board,
each of said second plurality of arcuate tiles having formed along
peripheral edges thereof:

an arcuate first tongue-and-groove that is adapted to
mate and lock with a portion of the tongue-and-groove track of
said flexible outer board; and

40 an arcuate second tongue-and-groove that is adapted to
 mate and lock with a portion of the tongue-and-groove track of
 said flexible inner board;

 whereby said second plurality of arcuate tiles, when all mated and
 locked with the tongue-and-groove tracks of said flexible outer
45 board and with said flexible inner board form the fourth outer
 surface of the arcuate architectural component, said second
 plurality of arcuate tiles constraining the mating
 tongue-and-groove tracks of said flexible outer board and of said
 flexible inner board into an arcuate shape.

 Claim 2. (Original) The arcuate architectural component
of claim 1 wherein:

 said first plurality of arcuate tiles have a third
 tongue-and-groove formed along a peripheral edge thereof which
5 spans between the first and the second tongue-and-grooves of said
 tiles, when said first plurality of arcuate tiles are assembled
 into said arcuate architectural component the third
 tongue-and-grooves of immediately adjacent tiles mating and locking
 together; and

10 said second plurality of arcuate tiles have a third
 tongue-and-groove formed along a peripheral edge thereof which
 spans between the first and the second tongue-and-grooves of said

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tiles, when said second plurality of arcuate tiles are assembled
into said arcuate architectural component the third
15 tongue-and-grooves of immediately adjacent tiles mating and locking
together.

Claim 3. (Original) The arcuate architectural component
of claim 1 wherein pairs of tiles, a first tile of each pair
belonging to said first plurality of arcuate tiles and a second
tile of each pair belonging to said second plurality of arcuate
5 tiles, are formed as mirror images.

Claim 4. (Original) The arcuate architectural component
of claim 1 wherein:

said flexible outer board also includes a series of serrulate
slots that extend well into said flexible outer board, the slots
5 extending transversely across said flexible outer board between the
tongue-and-groove tracks formed along opposite longitudinal edges
thereof to facilitate bending of said flexible outer board; and

said flexible inner board also includes a series of serrulate
slots that extend well into said flexible inner board, the slots
10 extending transversely across said flexible inner board between the
tongue-and-groove tracks formed along opposite longitudinal edges
thereof to facilitate bending of said flexible inner board.

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Claim 5. (Original) The arcuate architectural component of claim 1 wherein said flexible outer board, said flexible inner board, said first plurality of arcuate tiles and said second plurality of arcuate tiles are all formed from a solid plastic,
5 wood-alternative material.

Claim 6. (Original) An arcuate architectural component adapted for inclusion in an architectural structure, the arcuate architectural component comprising:

a plurality of flexible boards each of which includes
5 tongue-and-groove tracks formed along opposite longitudinal edges thereof, each tongue-and-groove track of each flexible board being adapted to mate together with and lock with one of the tongue-and-groove tracks formed along the longitudinal edge of the immediately adjacent flexible board when said flexible boards are
10 assembled to form said second arcuate architectural component;

whereby when said flexible boards are bent parallel to the tongue-and-groove tracks thereof and tongue-and-groove tracks of all flexible boards are all mated and locked with the tongue-and-groove tracks of immediately adjacent flexible boards
15 the assembled flexible boards form a column.

Claim 7. (Original) The arcuate architectural component of claim 6 wherein said flexible boards also include a series of serrulate slots that extend well into said flexible boards, the slots extending longitudinally along said flexible board between
5 the tongue-and-groove tracks formed along opposite longitudinal edges thereof to facilitate bending of said flexible boards.

Claim 8. (Original) The arcuate architectural component of claim 6 wherein said flexible boards are formed from a solid plastic, wood-alternative material.

Claim 9. (Original) An architectural structure that includes an arcuate component, the arcuate architectural component comprising:

a flexible outer board that upon being bent forms a curved
5 first outer surface of the arcuate architectural component, said flexible outer board including tongue-and-groove tracks formed along opposite longitudinal edges thereof;

a flexible inner board that upon being bent forms a curved second outer surface of the arcuate architectural component, said
10 flexible inner board including tongue-and-groove tracks formed along opposite longitudinal edges thereof;

a first plurality of arcuate tiles that are adapted to be arranged for forming a third outer surface of the arcuate architectural component which spans between a longitudinal edge of said flexible outer board and a longitudinal edge of said flexible inner board, each of said first plurality of arcuate tiles having formed along peripheral edges thereof:

an arcuate first tongue-and-groove that is adapted to mate and lock with a portion of the tongue-and-groove track of said flexible outer board; and

an arcuate second tongue-and-groove that is adapted to mate and lock with a portion of the tongue-and-groove track of said flexible inner board;

whereby said first plurality of arcuate tiles, when all mated and locked with the tongue-and-groove tracks of said flexible outer board and with said flexible inner board form the third outer surface of the arcuate architectural component, said first plurality of arcuate tiles constraining the mating tongue-and-groove tracks of said flexible outer board and of said flexible inner board into an arcuate shape; and

a second plurality of arcuate tiles that are adapted to be arranged for forming a fourth outer surface of said flexible outer board which spans between a longitudinal edge of said flexible outer board and a longitudinal edge of said flexible inner board,

35 each of said second plurality of arcuate tiles having formed along
peripheral edges thereof:

an arcuate first tongue-and-groove that is adapted to
mate and lock with a portion of the tongue-and-groove track of
said flexible outer board; and

40 an arcuate second tongue-and-groove that is adapted to
mate and lock with a portion of the tongue-and-groove track of
said flexible inner board;

whereby said second plurality of arcuate tiles, when all mated and
locked with the tongue-and-groove tracks of said flexible outer
45 board and with said flexible inner board form the fourth outer
surface of the arcuate architectural component, said second
plurality of arcuate tiles constraining the mating
tongue-and-groove tracks of said flexible outer board and of said
flexible inner board into an arcuate shape.

Claim 10. (Original) The architectural structure that
includes an arcuate component of claim 9 wherein:

said first plurality of arcuate tiles have a third
tongue-and-groove formed along a peripheral edge thereof which
5 spans between the first and the second tongue-and-grooves of said
tiles, when said first plurality of arcuate tiles are assembled
into said arcuate architectural component the third

tongue-and-grooves of immediately adjacent tiles mating and locking together; and

10 said second plurality of arcuate tiles have a third
tongue-and-groove formed along a peripheral edge thereof which
spans between the first and the second tongue-and-grooves of said
tiles, when said second plurality of arcuate tiles are assembled
into said arcuate architectural component the third
15 tongue-and-grooves of immediately adjacent tiles mating and locking
together.

Claim 11. (Original) The architectural structure that
includes an arcuate component of claim 9 wherein pairs of tiles, a
first tile of each pair belonging to said first plurality of
arcuate tiles and a second tile of each pair belonging to said
5 second plurality of arcuate tiles, are formed as mirror images.

Claim 12. (Original) The architectural structure that
includes an arcuate component of claim 9 wherein:

 said flexible outer board also includes a series of serrulate
slots that extend well into said flexible outer board, the slots
5 extending transversely across said flexible outer board between the
tongue-and-groove tracks formed along opposite longitudinal edges
thereof to facilitate bending of said flexible outer board; and

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said flexible inner board also includes a series of serrulate slots that extend well into said flexible inner board, the slots
10 extending transversely across said flexible inner board between the tongue-and-groove tracks formed along opposite longitudinal edges thereof to facilitate bending of said flexible inner board.

Claim 13. (Original) The architectural structure that includes an arcuate component of claim 9 wherein said flexible outer board, said flexible inner board, said first plurality of arcuate tiles and said second plurality of arcuate tiles are all
5 formed from a solid plastic, wood-alternative material.

Claim 14. (Original) The architectural structure that includes an arcuate component of claim 9 further comprising a second arcuate architectural component, the second arcuate architectural component including:
5 a plurality of flexible boards each of which includes tongue-and-groove tracks formed along opposite longitudinal edges thereof, each tongue-and-groove track of each flexible board being adapted to mate together with and lock with one of the tongue-and-groove tracks formed along the longitudinal edge of the
10 immediately adjacent flexible board when said flexible boards are assembled to form said second arcuate architectural component;

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whereby when said flexible boards are bent parallel to the tongue-and-groove tracks thereof and tongue-and-groove tracks of all flexible boards are all mated and locked with the tongue-and-groove tracks of immediately adjacent flexible boards the assembled flexible boards form a column.

Claim 15. (Original) The architectural structure that includes an arcuate component of claim 14 wherein said flexible boards also include a series of serrulate slots that extend well into said flexible boards, the slots extending longitudinally along said flexible board between the tongue-and-groove tracks formed along opposite longitudinal edges thereof to facilitate bending of said flexible boards.

Claim 16. (Original) The architectural structure that includes an arcuate component of claim 14 wherein said flexible boards are formed from a solid plastic, wood-alternative material.

Claim 17. (Original) An architectural structure that includes an arcuate component, the arcuate architectural component comprising:

a plurality of flexible boards each of which includes tongue-and-groove tracks formed along opposite longitudinal edges

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thereof, each tongue-and-groove track of each flexible board being adapted to mate together with and lock with one of the tongue-and-groove tracks formed along the longitudinal edge of the immediately adjacent flexible board when said flexible boards are
10 assembled to form said arcuate architectural component;

whereby when said flexible boards are bent parallel to the tongue-and-groove tracks thereof and tongue-and-groove tracks of all flexible boards are all mated and locked with the tongue-and-groove tracks of immediately adjacent flexible boards
15 the assembled flexible boards form a column.

Claim 18. (Original) The architectural structure that includes an arcuate component of claim 17 wherein said flexible boards also include a series of serrulate slots that extend well into said flexible boards, the slots extending longitudinally along
5 said flexible board between the tongue-and-groove tracks formed along opposite longitudinal edges thereof to facilitate bending of said flexible boards.

Claim 19. (Original) Claim The architectural structure that includes an arcuate component of claim 17 wherein said flexible boards are formed from a solid plastic, wood-alternative material.

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Amendments to the Drawings

Ten (10) formal drawing replacement sheets accompany this Response to the July 20th Office Action.

Accompanying formal drawing sheet eight of ten (8/10) includes an amendment to FIG. 7 of the informal drawings included in the patent application when originally filed. FIG. 7 in the informal drawings, that appears on original informal drawing sheet eight of nine (8/9), omitted reference number 138. To remedy this omission appearing in the informal drawings, reference number 138 appears in the accompanying formal drawing for FIG. 7.

The sentence in the pending patent application's text that begins on page 15 in line 23 establishes that adding reference number 138 to FIG. 7 of the formal drawings introduces no new matter into the patent application.

Attachment: Replacement Sheet
 Annotated Sheet Showing Changes